

**In the Abstract:**

Replace the abstract with the following new abstract:

A temperature requested by a battery pack is achieved efficiently and promptly. A battery pack cooling system includes a battery fan for cooling a battery pack in a down flow method; a changing damper which changes air to be supplied to the battery pack by using the battery fan among air in a vehicle compartment, air in a luggage compartment and air whose heat has been exchanged with a rear air conditioning unit; a temperature sensor which measures a battery temperature; and a battery ECU which controls the changing damper and the electric fan based on the battery temperature, a temperature in the vehicle compartment, and a temperature in a luggage compartment and which outputs an operation request signal for the rear air conditioning unit to an air conditioning ECU.